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Selected Papers on Optical Pattern Recognition (SPIE Milestone Series Vol. MS156) by

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Francis T. S. Yu (Author, Editor), Shizhuo Yin (Author, Editor) ISBN-13: 978-0819434692

Selected Papers on Optical Pattern Recognition (SPIE ...

Additional Physical Format: Online version: Selected papers on optical neural networks. Bellingham, Wash. : SPIE Optical Engineering Press, ©1994

Selected papers on optical neural networks (Book, 1994 ...

397 Optical neural network with bipolar neural states Xu-Ming Wang, Guo-Guang Mu (Applied Optics 1992) 405 Compact holographic optical neural network system for real-time pattern recognition Taiwei Lu, David Mintzer, Andrew Kostrzewski, Freddie Lin (Optical Engineering 1996)

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Recent progress on optical neural networks (ONNs) heralds a new future for efficient deep learning accelerators, and novel, to the best of our knowledge, architectures of optical convolutional neural networks (CNNs) provide potential solutions to the widely adopted convolutional models. So far in optical CNNs, the data patching (a necessary process in the convolutional layer) is mostly ...

Optical patching scheme for optical convolutional neural ...

Deep neural networks (DNNs) have substantial computational requirements, which greatly limit their performance in resource-constrained environments. Recently, there are increasing efforts on optical neural networks and optical computing based DNNs hardware, which bring significant advantages for deep learning systems in terms of their power efficiency, parallelism and computational speed.

[PDF] Multi-Task Learning in Diffractive Deep Neural ...

Machine intelligence has become a driving factor in modern society. However, its demand outpaces the underlying electronic technology due to limitations given by fundamental physics, such as capacitive charging of wires, but also by system architecture of storing and handling data, both driving recent trends toward processor heterogeneity. Task-specific accelerators based on free-space optics ...

OSA | Massively parallel amplitude-only Fourier neural network

A long distance range over tens of kilometers is a prerequisite for a wide range of distributed fiber optic vibration sensing applications. We significantly extend the attenuation-limited distance range by making use of the multidimensionality of distributed Rayleigh backscatter data: Using the wavelength-scanning coherent optical time domain reflectometry (WS-COTDR) technique, backscatter ...

OSA | Long-distance fiber optic vibration sensing using ...

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Early Papers on Optics Selected Publications From Optical Processing - Physics. C.L. Giles, M.W. Goudreau, Routing in Optical Multistage Interconnection Networks: A Neural Network

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Solution, IEEE/OSA J. of Lightwave Technology, Special Issue on Optical Interconnections for Information Processing, 13(6), p. 1111, 1995.

C. Lee Giles: Older Publications

The parallelism of optics and the miniaturization of optical components using nanophotonic structures, such as metasurfaces, present a compelling alternative to electronic implementations of convolutional neural networks. The lack of a low-power optical nonlinearity, however, requires slow and energy-inefficient conversions between the electronic and optical domains.

OSA | Optical frontend for a convolutional neural network

We introduced a Python-based design framework for manufacture-friendly optical ANN. It provides the cross-level interoperability between the photonic circuit chip layout and the neural networks infrastructure to enable the optical ANN with better tolerance to the device-by-device or chip-by-chip deviation.

A manufacture-friendly design framework for optical neural ...

We show optical waves passing through a nanophotonic medium can perform artificial neural computing. Complex information is encoded in the wavefront of an input light. The medium transforms the wavefront to realize sophisticated computing tasks such as image recognition. At the output, the optical energy is concentrated in well-defined locations, which, for example, can be interpreted as the ...

OSA | Nanophotonic media for artificial neural inference

Abstract: We introduce an electro-optic hardware platform for nonlinear activation functions in optical neural networks. The optical-to-optical nonlinearity operates by converting a small portion of the input optical signal into an analog electric signal, which is used to intensity-modulate the original optical signal with no reduction in processing speed.

Reprogrammable Electro-Optic Nonlinear Activation ...

Researchers have shown that a neural network can be trained using an optical circuit (blue rectangle). The laser inputs (green) encode information that is carried through the chip by optical waveguides (black). The chip relies on tunable beam splitters, which are represented by the curved sections in the waveguides.

Toward All-Optical Artificial Neural Networks | Optics ...

Deep learning uses multilayered artificial neural networks to learn digitally from large datasets. It then performs advanced identification and classification tasks. To date, these multilayered neural networks have been implemented on a computer. Lin et al. demonstrate all-optical machine learning that uses passive optical components that can be patterned and fabricated with 3D-printing.

All-optical machine learning using diffractive deep neural ...

Optical neural network demo Date: July 28, 2018 ... complex system of neural networks. Described in a new paper, the NIST chip overcomes a major challenge to the use of light signals by vertically ...

Optical neural network demo -- ScienceDaily

II. Governing propagation model and neural network Situation under study, model and analytical results Optical pulse propagation in an optical fibre with distributed gain/loss can be

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well described by a modified NLSE including the effects of linear GVD, nonlinear self-phase modulation (SPM) and linear gain/loss [25].

Modelling self-similar parabolic pulses in optical fibres ...

Selected Papers from OFC. Selected Papers from OFC 2019: Volume 38, Issue 2. ECOC.

Special Issue: Volume 38, Issue 9 (ECOC Conference 2019) ... ("Converged Optical Network Infrastructure in Support of Future Internet and Grid Services") Microstructured Fibers. Special Issue: Volume 27, Issue 11, 2009 ("Microstructured Optical Fibers") Signal ...

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